

Serial No. 09/763,572

IN THE CLAIMS:

The text of all pending claims are set forth below. Cancelled and withdrawn claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~striketrough~~. The status of each claim is indicated with one of (original), (currently amended), (previously amended), (cancelled), (withdrawn), (new), (previously added), (reinstated - formerly claim #), (previously reinstated), (re-presented - formerly dependent claim #) or, (previously re-presented). Please AMEND claims and ADD new claims, in accordance with the following:

1. (CANCELED)
2. (CANCELED)
3. (CANCELED)
4. (CANCELED)
5. (CANCELED)
6. (CANCELED)
7. (CANCELED)
8. (CANCELED)
9. (CANCELED)
10. (CANCELED)
11. (CANCELED)
12. (CANCELED)
13. (CANCELED)

14. (CURRENTLY AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the pair of substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being

Serial No. 09/763,572

characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on said one of the pair of substrates on the rear or front side of the plasma display panel,

forming a first photosensitive material layer on a further substrate;

disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;

without development, forming a second photosensitive material layer on the first photosensitive material layer;

disposing thereon a photolithographic mask having a pattern of the barrier ribs, followed by exposure and development of the first and second photosensitive material layers simultaneously, thereby producing a master having the wall-like projections and the barrier ribs formed on the further substrate; and

producing a transfer mold using the master, filling a barrier rib material in concaves of the transfer mold and transferring the barrier rib material onto ~~the substrate~~ said one of the pair of substrates for the plasma display panel, or producing a pressing mold using the master, pressing a barrier rib material on ~~the substrate~~ said one of the pair of substrates for the plasma display panel, thereby forming the wall-like projections and the barrier ribs.

15. (CURRENTLY AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the pair of substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method, comprising:

in the formation of the wall-like projections and the barrier ribs on said one of the pair of substrates on the rear or front side of the plasma display panel,

forming a barrier rib pattern of a light-tight material on a ~~light-transmissive~~ transparent

Serial No. 09/763,572

substrate;

forming thereon a first photosensitive material layer;

disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;

without development, forming a second photosensitive material layer on the first photosensitive material layer;

exposing the resulting, transparent substrate from a rear surface thereof, followed by developing, thereby producing a master having the wall-like projections and the barrier ribs formed on the transparent substrate; and

producing a transfer mold using the master, filling a barrier rib material in concaves of the transfer mold, and transferring the barrier rib material onto said one of the pair of substrates for the plasma display panel, or

producing a pressing mold using the master and pressing a barrier rib material on said one of the pair of substrates for the plasma display panel,

thereby forming the wall-like projections and the barrier ribs.

16. (CURRENTLY AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the pair of substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including over the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on said one of the pair of substrates on the rear or front side of the plasma display panel,

forming a lattice of a sandblast-resistant material on said one of the pair of substrates; thereafter forming a barrier rib material layer of good sandblastability on said one of the pair of substrates;

forming thereon a sandblast-resistant pattern using a photolithographic technique; and sandblasting the barrier rib material layer via the pattern,

thereby forming the wall-like projections and the barrier ribs.

Serial No. 09/763,572

17. (CURRENTLY AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the pair of substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on said one of the pair of substrates on the rear or front side of the plasma display panel,

forming first wall-like projections and second wall-like projections having the same height and crossing each other on said one of the pair of substrates, and

forming projections on either one of the first and second wall-like projections to the height of the barrier ribs,

thereby forming the wall-like projections and the barrier ribs.

18. (CURRENTLY AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the pair of substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on said one of the pair of substrates on the rear or front side of the plasma display panel,

forming a first photosensitive barrier rib material layer on said one of the pair of substrates;

disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;

Serial No. 09/763,572

without development, forming a second photosensitive barrier rib material layer on the first photosensitive barrier rib material layer; and

disposing thereon a photolithographic mask having a pattern of the barrier ribs, followed by exposure and development,

thereby forming the wall-like projections and the barrier ribs.

19. (CURRENTLY AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space therebetween, a plurality of band-like barrier ribs arranged in parallel on one of the pair of substrates on a rear or front side to partition the discharge space, and fluorescent layers provided in elongated grooves between the barrier ribs, the plasma display panel being characterized in that wall-like projections which are lower than the barrier ribs and high enough to increase a formation area of the fluorescent layers are provided in the elongated grooves between the barrier ribs and the fluorescent layers are formed in the grooves including the wall-like projections between the barrier ribs, the method comprising:

in the formation of the wall-like projections and the barrier ribs on said one of the pair of substrates on the rear or front side of the plasma display panel,

forming a pattern of the barrier ribs of a light-tight material on a light-transmissive transparent substrate;

forming thereon a first photosensitive barrier rib material layer;

disposing thereon a photolithographic mask having a pattern of the wall-like projections, followed by exposure;

without development, forming a second photosensitive barrier rib material layer on the first photosensitive barrier rib material layer; and

performing exposure from a rear face of the transparent substrate, followed by development,

thereby forming the wall-like projections and the barrier ribs.

20. (CURRENTLY AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space between, a plurality of barrier ribs in stripes arranged in parallel on either one of the pair of substrates to partition the discharge space, and wall-like projections lower than the barrier ribs provided in elongate grooves between the barrier ribs, characterized in that the projections are

Serial No. 09/763,572

formed by a process comprising:

forming a projection material layer on said one of the pair of substrates;

forming thereon a masking pattern for the projections of a sandblast-resistant material;

forming thereon a barrier rib material layer;

forming thereon a masking pattern for the barrier ribs of a sandblast-resistant material;

and

forming the projections and the barrier ribs simultaneously by a single sandblasting operation.

21. (CURRENTLY AMENDED) A method of fabricating a plasma display panel provided with a pair of substrates disposed opposite each other to form a discharge space between, a plurality of barrier ribs in stripes arranged in parallel on ~~either~~ one of the pair of substrates to partition the discharge space, and wall-like projections lower than the barrier ribs provided in elongate grooves between the barrier ribs, characterized in that the projections are formed by a process comprising: applying a projection material through a nozzle onto boundary areas between discharge cell areas in the elongate grooves between the barrier ribs on said one of the pair of substrates on which the barrier ribs are formed.

22. (ORIGINAL) The method for fabricating a plasma display panel as set forth in claim 21, characterized in that the projection material comprises a fluorescent substance paste.